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### 1 [Rendering with coherent layers](#)

[Jed Lengyel](#), [John Snyder](#)

August 1997 SI GGRAPH '97: Proceedings of the 24th annual conference on Computer graphics and interactive techniques

**Publisher:** ACM Press/Addison-Wesley Publishing Co.

Full text available: Pdf (1.32 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 12

Keywords: Talisman, affine transformation, image compositing, image-based rendering, sprite

### 2 [Supporting the restructuring of data abstractions through manipulation of a program visualization](#)

[Robert W. Bowdidge](#), [William G. Griswold](#)

April 1998 Transactions on Software Engineering and Methodology (TOSEM), Volume 7 Issue 2

**Publisher:** ACM

Full text available: Pdf (1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 90, Citation Count: 10

With a meaning-preserving restructuring tool, a software engineer can change a program's structure to ease future modifications. However, deciding how to restructure the program requires a global understanding of the program's structure, which cannot ...

Keywords: meaning-preserving restructuring, semi-automated restructuring, software visualization, star diagram, tool-supported restructuring

### 3 [Analysis of techniques to improve protocol processing latency](#)



[David Mosberger](#), [Larry L. Peterson](#), [Patrick G. Bridges](#), [Sean O'Malley](#)

August 1996 SIGCOMM '96: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications

**Publisher:** ACM

Full text available: Pdf (134.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 37, Citation Count: 14

This paper describes several techniques designed to improve protocol latency, and reports on their effectiveness when measured on a modern RISC machine employing the DEC Alpha processor. We found that the memory system---which has long been known to ...

Also published in:

October 1996 **SIGCOMM Computer Communication Review** Volume 26 Issue 4

### 4 [Recursive structures for standard ML](#)



[Claudio V. Russo](#)

October 2001 ICFP '01: Proceedings of the sixth ACM SIGPLAN international conference on Functional programming

**Publisher:** ACM

Full text available: Pdf (219.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 42, Citation Count: 15

Standard ML is a statically typed programming language that is suited for the construction of both small and large programs. "Programming in the small" is captured by Standard ML's Core language. "Programming in the large" is captured by Standard ML's ...

Also published in:

October 2001 **SIGPLAN Notices** Volume 36 Issue 10

### 5 [Version models for software configuration management](#)



[Reidar Conradi](#), [Bernhard Westfechtel](#)

June 1998 Computing Surveys (CSUR) , Volume 30 Issue 2

**Publisher:** ACM

Full text available: Pdf (483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 109, Downloads (12 Months): 837, Citation Count: 65

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

6 [Object-oriented design of preconditioned iterative methods in diffpack](#)



Are Magnus Bruaset, Hans Petter Langtangen

March Transactions on Mathematical Software (TOMS) , Volume 23 Issue 1  
1997

**Publisher:** ACM

Full text available: Pdf (734.26 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 47, Citation Count: 8

Keywords: iterative methods, object-oriented programming, preconditioning

7 [HTTP Cookies: Standards, privacy, and politics](#)



David M. Kristol

November Transactions on Internet Technology (TOIT) , Volume 1 Issue 2  
2001

**Publisher:** ACM

Full text available: Pdf (390.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 386, Citation Count: 8

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

8 [Dealing with complexity: exploratory analysis enabled by multiresolution, multiperspective modeling](#)

Paul K. Davis

December WSC '00: Proceedings of the 32nd conference on Winter simulation  
2000

**Publisher:** Society for Computer Simulation International

Full text available: Pdf (441.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation Count: 8

The objective of exploratory analysis is to gain a broad understanding of a problem domain before going into details for particular cases. Its focus is understanding comprehensively the consequences of uncertainty, which requires a good deal more than ...

## 9 [Lessons learned from the OS/400 OO project](#)



[William Berg](#), [Marshall Cline](#), [Mike Girou](#)

October 1995 Communications of the ACM , Volume 38 Issue 10

**Publisher:** ACM

Full text available: Pdf (339.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 58, Citation Count: 10

This article describes some of the lessons learned when a team of 150 developers with a minimal prior exposure to object-oriented (OO) technology undertook a large development project. Team members became proficient in OO design, using C++ as an OO language ...

## 10 [Conceptual schema analysis: techniques and applications](#)



[S. Castano](#), [V. De Antonellis](#), [M. G. Fugini](#), [B. Pernici](#)

September 1998 Transactions on Database Systems (TODS) , Volume 23 Issue 3

**Publisher:** ACM

Full text available: Pdf (350.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 210, Citation Count: 19

The problem of analyzing and classifying conceptual schemas is becoming increasingly important due to the availability of a large number of schemas related to existing applications. The purposes of schema analysis and classification activities can be ...

Keywords: conceptual modeling, reference components, schema classification, schema similarity

## 11 [Formalizing space shuttle software requirements: four case studies](#)



[Judith Crow](#), [Ben Di Vito](#)

July 1998 Transactions on Software Engineering and Methodology (TOSEM) , Volume 7 Issue 3

**Publisher:** ACM

Full text available: Pdf (267.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 179, Citation Count: 4

This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification ...

Keywords: flight software, formal methods, requirements analysis, space shuttle, state exploration, theorem proving

## 12 [Active database systems](#)



[Norman W. Paton](#), [Oscar Díaz](#)

March      Computing Surveys (CSUR) , Volume 31 Issue 1  
1999

**Publisher:** ACM

Full text available: Pdf (2.68 MB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 63, Downloads (12 Months): 682, Citation Count: 44

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems ...

Keywords: active databases, events, object-oriented databases, relational databases

## 13 [Graphical definitions: expanding spreadsheet languages through direct manipulation and gestures](#)



[Margaret M. Burnett](#), [Herkimer J. Gottfried](#)

March      Transactions on Computer-Human Interaction (TOCHI) , Volume 5  
1998      Issue 1

**Publisher:** ACM

Full text available: Pdf (1.64 MB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 52, Citation Count: 12

In the past, attempts to extend the spreadsheet paradigm to support graphical objects, such as colored circles or user-defined graphical types, have led to approaches featuring either a direct way of creating objects graphically or ...

Keywords: direct manipulation, forms/3, gestures, programming by demonstration

## 14 [Ontology-supported and ontology-driven conceptual navigation on the World Wide Web](#)



[Michel Crampes](#), [Sylvie Ranwez](#)

May      HYPERTEXT '00: Proceedings of the eleventh ACM on Hypertext and  
2000      hypermedia

**Publisher:** ACM

Full text available: Pdf (198.01 KB)      Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 61, Citation Count: 12

Keywords: WWW, XML, adaptive hypertext, conceptual navigation, metadata, narration, ontology, time optimization

15 [Coping with errors: the importance of process data in robust sociotechnical systems](#)



[Michael B. Twidale](#), [Paul F. Marty](#)

December 2000 CSCW '00: Proceedings of the 2000 ACM conference on Computer supported cooperative work

**Publisher:** ACM

Full text available: Pdf (140.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 36, Citation Count: 2

This paper presents an analysis of written and electronic records that document the collaborative process of packing museum artifacts in preparation for a move. The majority of data recorded detailed the process of packing, while only a small amount ...

Keywords: error analysis, problem solving, process data, workflow, workplace study

16 [Requirements for XML document database systems](#)



[Airi Salminen](#), [Frank Wm. Tompa](#)

November 2001 DocEng '01: Proceedings of the 2001 ACM Symposium on Document engineering

**Publisher:** ACM

Full text available: Pdf (141.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 271, Citation Count: 4

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective ...

Keywords: XML, XML database systems, data definition, data manipulation, data modelling, structured documents

17 [Interprocedural pointer alias analysis](#)



[Michael Hind](#), [Michael Burke](#), [Paul Carini](#), [Jong-Deok Choi](#)

July 1999 Transactions on Programming Languages and Systems (TOPLAS) , Volume 21 Issue 4

**Publisher:** ACM

Full text available: Pdf (502.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 135, Citation Count: 30

We present practical approximation methods for computing and representing interprocedural aliases for a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...

Keywords: interprocedural analysis, pointer aliasing, program analysis

**18** [Knowledge entry as the graphical assembly of components](#)



[Peter Clark](#), [John Thompson](#), [Ken Barker](#), [Bruce Porter](#), [Vinay Chaudhri](#), [Andres Rodriguez](#), [Jérôme Thoméré](#), [Sunil Mishra](#), [Yolanda Gil](#), [Pat Hayes](#), [Thomas Reichherzer](#)

October 2001 K-CAP '01: Proceedings of the 1st international conference on Knowledge capture

**Publisher:** ACM

Full text available: Pdf (137.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 32, Citation Count: 15

Despite some successes, the lack of tools to allow subject matter experts to directly enter, query, and debug formal domain knowledge in a knowledge-base still remains a major obstacle to their deployment. Our goal is to create such tools, so that a ...

Keywords: components, composition, graphical knowledge entry, knowledge acquisition, knowledge-based systems

**19** [A component model for standardized web-based education](#)



August 2001 Journal on Educational Resources in Computing (JERIC) , Volume 1 Issue 2es

**Publisher:** ACM

Full text available: Pdf (384.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 149, Citation Count: 1

We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and ...

Keywords: authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

**20** [Electronic mail as a coalition-building information technology](#)



[Celia T. Romm](#), [Nava Pliskin](#)

January 1998 Transactions on Information Systems (TOIS) , Volume 16 Issue 1

**Publisher:** ACM

Full text available: Pdf (80.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 57, Citation Count: 2





One of the most intriguing lines of research within the literature on diffusion of information technologies (IT) is the study of the power and politics of this process. The major objective of this article is to build on the work of Kling and Markus on ...

Keywords: MIS, abuse, coalition building, email, politics

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